

ADFOAM FIREBLOCK 1860-1

Gun grade fire block polyurethane insulating foam

DESCRIPTION

ADFOAM FIREBLOCK 1860-1 is a fire rated one-component, self-expanding, ready to use flexible polyurethane foam. It is used for electrical and plumbing or any other penetrations in wall, ceiling, or floor. It adheres to most common construction material. It contains CFC-free propellants and is completely harmless to the ozone layer. ADFOAM FIREBLOCK 1860-1 meets CAN/ULC S102 and ASTM E84 (UL R26654). ADFOAM FIREBLOCK 1860-1 has a fire resistance up to 235 minutes.

PHYSICAL PROPERTIES

Test	Standard	Results
Base		Polyurethane
Color		Red
Consistency		Stable foam
Curing system		Moisture cure
Tack Free Time [20°C (68°F) / 65% H.R.]	ASTM C1620	4 – 10 minutes (1 cm/0.4" diameter)
Cutting time [20°C (68°F) / 65% H.R.]	ASTM C1620	30 – 45 minutes (1 cm/0.4" diameter)
Curing time [20°C (68°F) / 65% H.R.]		24 hours
Yield	ASTM C1536	30-45 L
Post expansion		200% – 250%
Skrinkage		0%
Specific gravity	ASTM D1622	19 – 25 kg/m ³
Temperature resistance		-40°C (-40°F) to 90°C (194°F) when cured
Fire class (DIN 4102)	DIN 4102	B1 (when cured)
Thermal conductivity	DIN 52612	0.036 W/m.k. (at 20°C / 68°F)
Compression strength	DIN 53421	0.03 MPa
Water absorption	DIN 53428	Maximum 1% (Volume)
Optimum can temperature		5°C (41°F) to 30°C (86°F)
Application temperature		5°C (41°F) to 30°C (86°F)
V.O.C.	SCAQMD rule 1168.	< 2 g/L

FIRE RATED TEST (I.A.T.M.)

Wall thickness	Joint dimension	Backing material	Fire resistance in minutes
200 mm	width : 11 mm (0.43") depth : 200 mm (7.87")	None	235 min.
200 mm	width : 31 mm (1.22") depth : 200 mm (7.87")	None	147 min.
100 mm	width : 21 mm (0.83") depth : 100 mm (3.94")	None	64 min.
100 mm	width : 11 mm (0.43") depth : 100 mm (3.94")	None	106 min.

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PRODUCT CHARACTERISTICS

- Fire resistance up to 235 minutes
- Efficient seal against smoke and gas
- Gun use, reusability, and precise application
- Does not contain CFC's and H-CFC's
- Excellent adhesion and filling capacity
- Excellent mounting capacity and stability
- Economical consumption thanks to precise application
- High yield up to 55 liters depending on temperature and humidity
- Mould proof, waterproof and paintable

APPLICATIONS

- Filling and sealing gaps, joints and cavities
- Filling penetrations in walls, ceilings, and floors
- Heat insulation of roof construction
- Sealing of cable and pipes penetrations
- Bonding of insulation materials
- Multi-purpose, adhesion, and fixation

SPECIFICATIONS

CAN/ULC S102 (When applied to inorganic-reinforced cement boar)



Flame spread: 20

Smoke developed: 55

Applied in two 43.5 mm diameter beads 200 mm OC covering 19.3 percent of the exposed test sample area.

ASTM E84 (When applied to inorganic-reinforced cement board)



Flame spread: 0

Smoke developed: 5

*Tested as applied in two 12.7mm (0.5 inch) beads 203.2mm (8 inches) on O.C. covering 5.5% of the exposed test sample area

DIRECTIONS FOR USE

All surfaces must be free of dust, oil, grease, frost, or any other contaminant. Clean all surfaces with ADFOAM CLEANER 500. Let evaporate 20 minutes prior to ADFOAM FIREBLOCK 1860-1 application. Shake the aerosol can for at least 30 seconds. Fit the gun on the adapter. Moisten surfaces with a water spray prior to application (only when temperature > 0°C). Fill holes and cavities at 50% as the foam will expand. The size of a foam bead should be between 1/8 and 3 inches. Repeat shaking regularly during application. If you must work

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in layers repeat moistening after each layer (only when temperature >0°C). Fresh foam can be removed using ADFOAM CLEANER 500. Cured foam can only be removed mechanically. For later utilization, when there is still some foam inside the can, keep the can screwed on the gun. Cured foam may be trimmed or sanded. Cured foam must be protected from UVB radiation by painting or applying a top layer of sealant (silicone or hybrid sealant). Application temperature: 5°C (41°F) to 30°C (86°F) Optimal can temperature 20°C (68°F). Cans should be kept at room temperature for at least 12 hours before the application.

PACKAGING

750ml / 29 oz aerosol can (12 per box)

STORAGE AND SHELF LIFE

9 months in unopened packaging in a cool and dry storage place at temperatures between 10°C (50°F) and 25°C (77°F). High humidity and storage below or above these temperatures will shorten shelf life. Always store and transport can with the valve pointed upwards.

HANDLING AND SAFETY

Apply the usual industrial hygiene. Wear gloves and safety goggles. Remove cured foam by mechanical means only, never burn away. Consult the SDS (Safety Data Sheet) for more information. If you need additional information, do not hesitate to contact your technical representative. Always test product on your application prior to use. For industrial use only.

IMPORTANT

READ CAREFULLY

The information and recommendations contained herein are derived from our research and information from other reliable sources. This data applies only to our products and not when used with other products. We believe in the reliability of our information. However, no guarantee is offered to that effect. It is the responsibility of the buyer to verify this data according to their own operating conditions to ensure that they conform to the purpose for which the product is intended, even before using it.

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